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**(54) PARTICULATE FILTER
REGENERATING DEVICE FOR
DIESEL ENGINE**

(57) Abstract:

PROBLEM TO BE SOLVED: To prevent an excessively collecting condition by a particulate filter under every operating condition of an engine so as to prevent reduction of fuel rate and power performance of the engine.

SOLUTION: An oxidation catalyst 14 for oxidizing NO in exhaust gas of an engine 11 into NO₂ is disposed in an exhaust passage 13, and a particulate filter 14b for collecting particulate in exhaust gas and for oxidizing and eliminating the particulate by NO₂ at a prescribed exhaust gas temperature or more is disposed in an exhaust passage arranged on a downstream side of exhaust gas from the oxidation catalyst. A variable timer mechanism 16d for regulating an injection timing for fuel is disposed on an in-line fuel injection device 16 for injecting fuel to the engine, and an accumulation amount of the particulate accumulated on the particulate filter is detected by an accumulation amount detecting means 17. In a controller 18, the variable timer mechanism is controlled on the basis of the output detected by the

accumulation amount detecting means.

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